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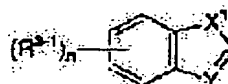
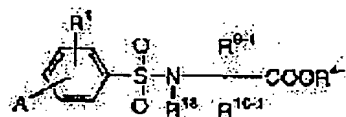
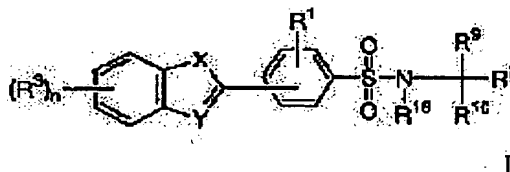
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(54) PHENYLSULFONAMIDE DERIVATIVE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound having an inhibiting action to a matrix metalloproteinase, e.g. gelatinase, stromelysin or a collagenase, and useful for the prevention and treatment of rheumatoid arthritis, etc.

SOLUTION: This phenylsulfonamide derivative is an objective compound expressed by formula I [R¹ is H or a 1-4C alkyl; R² is COOR⁴ (R⁴ is a 1-8C alkyl, phenyl, etc.), CONHOR⁵ (R⁵ is H, a substituted 1-4C alkyl, etc.); X is O, S, etc.; Y is CH or N; R³ is H, a 1-4C alkyl, etc., (n) is 1-4; R⁹, R¹⁰ are H, a 1-8C alkyl, etc.; R¹⁸ is H, a 1-4C alkyl or a 1-4C alkoxy carbonyl], e.g. N-[4-(2-indolyl) phenylsulfonyl]-D-alanine. Further, to obtain the objective compound, e.g. it is preferable to react a compound expressed by formula II (A is a halogen or trifluoromethanesulfonyloxy) with a compound expressed by formula III in the presence of an organic solvent and a metal halide by using a catalyst at 0-100°C.



LEGAL STATUS

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